

1 Identification**Product identifier****Trade name:** Grindex 10**Article number:** 01101-04**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

For industrial use

Metalworking fluid concentrate

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

BLASER SWISSLUBE AG

Winterseistrasse 22

CH-3415 Hasle-Rüegsau

Switzerland

Tel.: +41 (0)34 460 01 01

E-mail: contact@blaser.com

Blaser Swissslube (S) Pte. Ltd.

No. 1 Yishun Industrial Street 1

A'Posh Bizhub 05-08

Singapore 768 160

Phone: +65 (0) 6339 6881

Fax: +65 (0) 6339 6151

E-mail: singapore@blaser.com

Further information obtainable from:

Product Safety Department

E-mail: sds@blaser.com

Emergency telephone number:

For advice on chemical emergencies, spillages, fires or exposures: +65 3158 1074 (24h/7d)

2 Hazards identification**Classification of the substance or mixture:**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Label elements**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**Hazard pictograms**

GHS07

Signal word Warning**Hazard-determining components of labelling:**

2-aminoethanol *

Sodium omadine

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Safety Data Sheet

according SS 586 : Part 3

Printing date 26.07.2021

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P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Declarable, or hazardous components:****CAS-no.**

| | | |
|-------------------------------------|--|----------|
| | Carboxylic acids, neutralized with alkanolamines* Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | >5-9.9% |
| CAS: 102-71-6 EINECS: 203-049-8 | Triethanolamine | >25-<50% |
| | citric acid, sodium salt* Eye Irrit. 2, H319 | >1-4.9% |
| | 2-aminoethanol * Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335 | >1-2.9% |
| | Benzotriazole, sodium salt* Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | <2% |
| CAS: 3811-73-2 EINECS: 223-296-5 | Sodium omadine Acute Tox. 3, H311; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | <0.25% |
| CAS: 31075-24-8 Polymer | Poly quaternary ammonium chloride Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; Acute Tox. 4, H332 | <0.1% |

Additional information:

* Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.
 For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

Description of first aid measures**After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

Not applicable, as the concentrate is not volatile.

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.

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For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dilute with plenty water.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.

Optimal storage temperature between -15°C and +40°C.

Minimum shelf life: In closed original container, at least 12 months.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Control parameters

Ingredients with limit values at the workplace:

102-71-6 Triethanolamine

WSH (Singapore) Long-term value: 5 mg/m³

Additional information: The lists valid during the making were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

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Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Eye protector with side protection (framed eyeglasses) EN 166.

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:**

| | |
|-------------------------|----------------------|
| Form: | Liquid |
| Colour: | Yellowish |
| Odour: | Weak, characteristic |
| Odour threshold: | Not determined. |

pH-value: 8.7-9.4 @ 50 g/l H₂O (DIN 51369 / ASTM D1287)

Change in condition:

| | |
|---|--------------------------------|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | >100 °C (DIN 51751 / ASTM D86) |
| Drip point: | Not applicable |
| Pour point: | < 0 °C (ISO 3016 / ASTM D97) |

Flash point: >130 °C (ISO 2592 / ASTM D92)

Flammability (solid, gas): Not applicable.

Ignition temperature: Not applicable
not determined

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits (@1013 mbar):

| | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

Oxidising properties Not applicable.

Refractive index: 1.428 (@ 20 °C)

Density at 20 °C: 1.13 g/cm³ (DIN 51757 / ASTM D1217)

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| | |
|---|---|
| Vapour density | Not applicable. Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with water: | Fully miscible. |
| Partition coefficient: n-octanol/water: | Not determined. |
| Viscosity: Kinematic at 40 °C: | 10.2 mm ² /s |
| Other information: | safety relevant data, which has to be considered as product specifications. |

10 Stability and reactivity

Reactivity None known if used as directed.
Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Reacts with strong acids and oxidising agents.
Conditions to avoid No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products:
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

| | | |
|------------|------|--------------|
| Oral | LD50 | 7,206 mg/kg |
| Dermal | LD50 | >3,915 mg/kg |
| Inhalative | LD50 | 227 mg/L |

Carboxylic acids neutralized with alkanolamines*

| | | |
|------------|------|-------------|
| Oral | LD50 | 1,640 mg/kg |
| Dermal | LD50 | 3,253 mg/kg |
| Inhalative | LD50 | 42 mg/L |

3811-73-2 Sodium omadine

| | | |
|------------|------|---|
| Oral | LD50 | 500 mg/kg (rat) Calculated from 40% solution. |
| Dermal | LD50 | 1,800 mg/kg (rabbit) Calculated from 40% solution. |
| Inhalative | LD50 | 0.5 mg/L (rat) |

Primary irritant effect:

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Irritating effect.

Respiratory or skin sensitisation No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

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12 Ecological information

Toxicity

Aquatic toxicity:

3811-73-2 Sodium omadine

EC50/96h 0.00264 mg/L (Oncorhynchus mykiss) (OECD 203)

EC50/48h 0.0088 mg/L (Daphnia magna) (OECD 202)

EC50/72h 0.0012 mg/L (Algae) (OECD 201)

Persistence and degradability No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

UN-Number

ADR, ADN, IMDG, IATA

Not regulated

UN proper shipping name

ADR, ADN, IMDG, IATA

Not regulated

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not regulated

Packing group

ADR, IMDG, IATA

Not regulated

Environmental hazards:

Marine pollutant:

No

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

IATA

IATA Dangerous Goods Regulation (DGR): latest edition

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UN "Model Regulation":

Not regulated

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Poisons Act - Schedule 1

None of the ingredients are listed.

Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

Health Products Act - First Schedule - Psychotropic Substances

None of the ingredients are listed.

GHS label elements CLP/GHS label elements are issued under section 2.

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

This preparation does not contain any SVHC ("Substances of Very High Concern")

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Regulations / approvals / listings:

Information on REACH registration numbers in section 3:

If no REACH registration numbers on substances in section 3 are mentioned, then they are exempt from the REACH registration requirements (e.g. polymers).

RoHS:

The product is compliant with European Directives 2015/863/EC, 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PBDE) and / or polybrominated biphenyls (PBB), Bis(2-ethylhexyl)phthalate (DEHP), Benzylbutylphthalate (BBP), Dibutylphthalate (DBP), Diisobutylphthalate (DIBP);

lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr⁶⁺-compounds.

TSE/BSE:

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

Relevant phrases

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS: Product Stewardship

Contact: Mrs. Wilson + Mr. Feller

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Editor's notice:

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

ATE: Acute Toxicity Estimate

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.